

Title (en)
X-RAY GENERATION DEVICE

Title (de)
RÖNTGENSTRAHLERZEUGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE GENERATION DE RAYONS X

Publication
EP 3637960 A4 20210224 (EN)

Application
EP 18813138 A 20180226

Priority
• JP 2017112773 A 20170607
• JP 2018006985 W 20180226

Abstract (en)
[origin: EP3637960A1] An X-ray generation device includes an X-ray tube including an electron gun that generates an electron beam and a target that generates an X-ray by incidence of the electron beam; a power supply portion including a booster that boosts an input voltage from outside to generate a high voltage and an insulating block that seals the booster with an insulating material; and a control unit that performs control to generate the X-ray. The control unit includes a first information processing element that performs at least part of the control using a digital signal at a high potential based on the high voltage. The first information processing element is sealed with the insulating material in the insulating block.

IPC 8 full level
H05G 1/08 (2006.01); **H01J 35/00** (2006.01); **H05G 1/06** (2006.01); **H05G 1/30** (2006.01)

CPC (source: EP KR US)
H01J 35/08 (2013.01 - KR); **H05G 1/06** (2013.01 - EP KR US); **H05G 1/08** (2013.01 - EP); **H05G 1/30** (2013.01 - EP KR); **H05G 1/32** (2013.01 - US); **H01J 35/00** (2013.01 - EP)

Citation (search report)
• [E] EP 3544390 A1 20190925 - CANON ANELVA CORP [JP]
• [A] EP 0817546 A1 19980107 - ANALOGIC CORP [US]
• See also references of WO 2018225307A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3637960 A1 20200415; **EP 3637960 A4 20210224**; CN 110692282 A 20200114; CN 110692282 B 20230324; JP 2018206676 A 20181227; JP 6792519 B2 20201125; KR 102536969 B1 20230525; KR 20200015533 A 20200212; US 11039526 B2 20210615; US 2020154552 A1 20200514; WO 2018225307 A1 20181213

DOCDB simple family (application)
EP 18813138 A 20180226; CN 201880036758 A 20180226; JP 2017112773 A 20170607; JP 2018006985 W 20180226; KR 20197036380 A 20180226; US 201816619601 A 20180226